

YOLO-SOLANO AIR QUALITY MANAGEMENT DISTRICT

1947 Galileo Court, Suite 103; Davis, CA 95618

Phone (530) 757-3650 Fax (530) 757-3670

FACILITY NUMBER: 05010

SIC CODE: 9223

AUTHORITY TO CONSTRUCT

C-11-15

IS HEREBY GRANTED TO

CALIFORNIA STATE PRISON - SOLANO

P.O. Box 4000

Vacaville, CA 95696

EQUIPMENT LOCATION: 2100 Peabody Road; Vacaville, CA

TO CONSTRUCT

PROCESS DESCRIPTION: Internal combustion (IC) engine powering an emergency generator; Modification of P-29-95 to increase maintenance and testing hours of operation for the engine

EQUIPMENT INVENTORY: 960 BHP diesel fired Detroit Diesel IC engine, Model No. 16V-92T 8163-7305, Serial No. 16VF006382, Model Year 1985, Non-Certified Engine, Generator #1

- Total Billing: Schedule 7, 960 BHP -

CONTROL EQUIPMENT INVENTORY:

Turbocharger

PERMITTED EMISSION LIMITS:

Pollutant	Daily [lb]	Qtr #1 (Jan 1-Mar 31) [lb]	Qtr #2 (Apr 1-June 30) [lb]	Qtr #3 (July 1-Sept 30) [lb]	Qtr #4 (Oct 1-Dec 31) [lb]	Yearly [tons]
VOC	12.4	103	103	103	103	0.05
CO	101.6	847	847	847	847	0.42
NO _x	702.5	5,854	5,854	5,854	5,854	2.93
SO _x	0.3	2	2	2	2	Neg.
PM ₁₀	41.8	348	348	348	348	0.17

PERMITTED PROCESS LIMITS:

	Daily [gallons]	Qtr #1 (Jan 1-Mar 31) [gallons]	Qtr #2 (Apr 1-June 30) [gallons]	Qtr #3 (July 1-Sept 30) [gallons]	Qtr #4 (Oct 1-Dec 31) [gallons]	Yearly [gallons]
Diesel	1,248	10,400	10,400	10,400	10,400	10,400

The following information is included to inform and assist the Permit Holder in achieving compliance with applicable provisions of Federal, State, and District Rules and Regulations. The following set of referenced regulations are not intended to be either comprehensive or exclusive, nor are they intended to be emission limiting permit conditions, but they are still applicable rules of the District. Occasionally laws are amended. The amended versions of the referenced rules shall be deemed to be in effect. **It is the Permit Holder's responsibility to comply with all applicable Rules and Regulations.**

1. The Permit Holder shall submit the Permit Notification Card after completing construction, installation, initial adjustment, or shakedown, and no later than 48 hours after beginning actual operation of the equipment listed in the Authority to Construct (ATC). For modifications of existing permits not requiring a physical change, the Permit Holder shall submit the Permit Notification Card no later than 48 hours after beginning operation of the equipment under the revised conditions of this ATC. The Permit Notification Card serves as the Permit to Operate (PTO) application, while the ATC and its conditions shall function as a temporary PTO until the final PTO is issued or denied. Operation beyond the shakedown period and the allowable 48 hours of actual operation without the submission of a Permit Notification Card will be considered operation without a valid permit and may be subject to enforcement action. [District Rule 3.1, §402]
2. The District requires an inspection of the equipment after completion of the construction and prior to the issuance of the Permit to Operate. [District Rule 3.1, §402]
3. An authorization to construct shall remain in effect only until the application for Permit to Operate is granted or denied; however, such an authorization shall not remain in effect beyond two years from the date of issuance unless the District finds that the time required for construction requires an extension and grants one or more extensions, for a total time not to exceed five years from the date of issuance. [District Rule 3.1, §407]

The following set of conditions are established by the District to provide enforceable operating parameters as authorized by California Health and Safety Code Section 42301 and District Rule 3.1, Section 402. If any of the rules and regulations referenced below are amended subsequent to the issuance date of this permit, resulting in the amended rule differing from or superseding the corresponding condition, then the Permit Holder shall be required to comply with the amended rule or regulation and shall no longer be required to comply with the superseded condition.

4. The Permit Holder shall not discharge into the atmosphere from any single source of emission whatsoever, any air contaminant for a period or periods aggregating more than three (3) minutes in any one (1) hour which is:

- a. As dark or darker in shade than No. 1 on the Ringelmann Chart; or
 - b. Greater than 20% opacity. [District Rule 3.4]
5. The Permit Holder shall not operate the IC engine more than 40 hours per calendar year for maintenance and testing purposes, and such operation shall be scheduled in cooperation with the District so as to limit air quality impact. [District Rule 3.4]
6. The Permit Holder shall only refuel the IC engine with CARB certified diesel fuel. [District Rule 3.4]
7. The Permit Holder shall not operate the IC engine more than 200 hours per calendar year. [District Rule 3.4, §110.2]
8. The Permit Holder shall not operate the IC engine for the supplying of power to a serving utility for distribution on the grid. [District Rule 3.4, §110.3]
9. The Permit Holder's operation of this IC engine for reasons other than maintenance and testing purposes shall be limited to actual interruptions of electrical power by the serving utility. [District Rule 3.4, §110.4]
10. The Permit Holder shall install and maintain a non-resettable hour meter with a minimum display capability of 9,999 hours. [District Rule 3.4]
11. The Permit Holder shall maintain a monthly log of usage that shall list and document the nature of use for each of the following:
 - a. Emergency use hours of operation;
 - b. Maintenance and testing hours of operation;
 - c. Hours of operation for emission testing to show compliance with Title 17 CCR, Section 93115.6(a)(3) and 93115.6(b)(3);
 - d. Initial start-up hours;
 - e. Fuel use through the retention of fuel purchase records which indicate that the fuel used in the IC engine is CARB certified diesel fuel or an approved ATCM compliant alternative fuel. [District Rule 3.4]
12. All required records shall be retained for a minimum of five (5) years and shall be made available for District inspection upon request. [District Rule 3.8, section 302.6(b)]

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26, Part 4, Chapter 3, of the Health & Safety Codes of the State of California or the Rules and Regulations of the Yolo-Solano Air Quality Management District.

Mat Ehrhardt, P.E.
AIR POLLUTION CONTROL OFFICER

By: _____

Date of Issuance: _____